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**From:** Fitz, Nancy [Fitz.Nancy@epa.gov]  
**Sent:** 6/22/2020 1:27:08 PM  
**To:** Griffin, Stephanie [griffin.stephanie@epa.gov]; Smith, Peterj [Smith.Peterj@epa.gov]; Picone, Kaitlin [Picone.Kaitlin@epa.gov]; Leifer, Kerry [Leifer.Kerry@epa.gov]  
**CC:** Schroeder, Carolyn [Schroeder.Carolyn@epa.gov]; Hofmann, Angela [Hofmann.Angela@epa.gov]; Lloyd, Matthew [Lloyd.Matthew@epa.gov]  
**Subject:** RE: NDAA PFAS guidance pesticide equities?

Stephanie,

You are welcome. Just to close the loop, I asked Kerry Leifer, the branch chief of the Chemistry, Inerts and Toxicology Assessment Branch if PFAS are used in pesticide manufacturing or formulation. His response was:

The answer to the question is "it depends." Basically there are a few definitions of PFAS. The "classical" definition of PFAS includes PFOA and PFOS compounds, for which there are no currently registered products containing these as either active or inert ingredients. There is also a much broader definition of PFAS that could be interpreted to include a few pesticide a.i.s.

If you need more information about that from Kerry, I have added him to his email so you can go straight to the source.

Nancy

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**From:** Griffin, Stephanie <griffin.stephanie@epa.gov>  
**Sent:** Friday, June 19, 2020 8:29 AM  
**To:** Smith, Peterj <Smith.Peterj@epa.gov>; Fitz, Nancy <Fitz.Nancy@epa.gov>; Picone, Kaitlin <Picone.Kaitlin@epa.gov>  
**Cc:** Schroeder, Carolyn <Schroeder.Carolyn@epa.gov>; Hofmann, Angela <Hofmann.Angela@epa.gov>; Lloyd, Matthew <Lloyd.Matthew@epa.gov>  
**Subject:** RE: NDAA PFAS guidance pesticide equities?

Thanks, Nancy! I don't believe we need anything more, especially if there's not much overlap with pesticide manufacture. Thank you for reviewing.

Stephanie Griffin  
Toxics Release Inventory Program  
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(202) 564-1463  
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**From:** Smith, Peterj <[Smith.Peterj@epa.gov](mailto:Smith.Peterj@epa.gov)>  
**Sent:** Thursday, June 18, 2020 6:05 PM  
**To:** Fitz, Nancy <[Fitz.Nancy@epa.gov](mailto:Fitz.Nancy@epa.gov)>; Griffin, Stephanie <[griffin.stephanie@epa.gov](mailto:griffin.stephanie@epa.gov)>; Picone, Kaitlin <[Picone.Kaitlin@epa.gov](mailto:Picone.Kaitlin@epa.gov)>  
**Cc:** Schroeder, Carolyn <[Schroeder.Carolyn@epa.gov](mailto:Schroeder.Carolyn@epa.gov)>; Hofmann, Angela <[Hofmann.Angela@epa.gov](mailto:Hofmann.Angela@epa.gov)>; Lloyd, Matthew <[Lloyd.Matthew@epa.gov](mailto:Lloyd.Matthew@epa.gov)>  
**Subject:** RE: NDAA PFAS guidance pesticide equities?

Nancy,

This is incredibly helpful! Thank you so much for your in-depth consideration. I hope all is well!

Best,  
Peter

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*NOTICE: If this electronic communication explains, justifies, or documents an official action or decision, it may be subject to federal records requirements. Federal employees should evaluate the contents of this message before deleting it.*  
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US EPA | Office of Chemical Safety & Pollution Prevention | Regulatory & Information Coordination Staff

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**From:** Fitz, Nancy <[Fitz.Nancy@epa.gov](mailto:Fitz.Nancy@epa.gov)>  
**Sent:** Thursday, June 18, 2020 6:03 PM  
**To:** Griffin, Stephanie <[griffin.stephanie@epa.gov](mailto:griffin.stephanie@epa.gov)>; Picone, Kaitlin <[Picone.Kaitlin@epa.gov](mailto:Picone.Kaitlin@epa.gov)>; Smith, Peterj <[Smith.Peterj@epa.gov](mailto:Smith.Peterj@epa.gov)>  
**Cc:** Schroeder, Carolyn <[Schroeder.Carolyn@epa.gov](mailto:Schroeder.Carolyn@epa.gov)>; Hofmann, Angela <[Hofmann.Angela@epa.gov](mailto:Hofmann.Angela@epa.gov)>; Lloyd, Matthew <[Lloyd.Matthew@epa.gov](mailto:Lloyd.Matthew@epa.gov)>  
**Subject:** RE: NDAA PFAS guidance pesticide equities?

Hello everyone,

I am not sure about whether we need to provide a formal response, so I'm responding to all right now. Please let me know if you all need something more formal and I can work to make that happen next week.

I reviewed the PFAS Guidance document and do not see any conflicts or problems with the pesticide container-containment regulations or managing pesticide containers in general. The guidance document does not establish any requirements and, for pesticides, seems to focus on pesticide manufacturing, so there really is no overlap with the pesticide container requirements in 40 CFR Part 165. Even if managing pesticide containers by end users was included, the most common disposal method is landfilling, which is one of the three disposal methods analyzed in the guidance.

My main question is how many/how often PFAS are used in pesticide manufacturing. I searched our pesticide database for chemicals with "perfluoro" in them. While I realize this is probably too simplistic of a search, seven of the ten chemicals have been cancelled or do not have any active products. The other three are inert ingredients that seem to be used. I will reach out to Kerry Leifer, who manages the Inerts Team, in the Registration Division to get his input and will provide that next week.

Stephanie, I do not have any knowledge of solid waste streams containing PFAS that are released from pesticide manufacturing facilities in response to the additional question you posed to me (see below). However for solid pesticide formulations, I suspect the solid waste streams would be similar to plastics manufacturing and could include at the very least dusts and off-spec product.

From lit reviews, we were able to add liquid and gas stream phase wastes from pesticide manufacturing facilities, but nothing definitive on solid waste streams. If you're aware of examples of solid waste streams containing PFAS that are released from these facilities (e.g., dusts, micropowders, spent rags/cloths, off-spec products, etc.)—please do let me know and I'll incorporate (w/ references). No worries if this isn't a typical waste stream; this table isn't meant to be exhaustive, and not every industry listed has examples for all 3 phases.

That's all that I have. Please let me know if you have any questions or need more information.

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**From:** Griffin, Stephanie <[griffin.stephanie@epa.gov](mailto:griffin.stephanie@epa.gov)>

**Sent:** Monday, June 08, 2020 3:09 PM

**To:** Picone, Kaitlin <[Picone.Kaitlin@epa.gov](mailto:Picone.Kaitlin@epa.gov)>; Smith, Peterj <[Smith.Peterj@epa.gov](mailto:Smith.Peterj@epa.gov)>

**Cc:** Schroeder, Carolyn <[Schroeder.Carolyn@epa.gov](mailto:Schroeder.Carolyn@epa.gov)>; Hofmann, Angela <[Hofmann.Angela@epa.gov](mailto:Hofmann.Angela@epa.gov)>; Fitz, Nancy <[Fitz.Nancy@epa.gov](mailto:Fitz.Nancy@epa.gov)>; Lloyd, Matthew <[Lloyd.Matthew@epa.gov](mailto:Lloyd.Matthew@epa.gov)>

**Subject:** RE: NDAA PFAS guidance pesticide equities?

Thanks, Kaitlin (and Nancy!). The workgroup would appreciate comments ASAP, but at the very latest by workgroup closure June 18-23.

Stephanie Griffin  
(202) 564-1463

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**From:** Picone, Kaitlin <[Picone.Kaitlin@epa.gov](mailto:Picone.Kaitlin@epa.gov)>

**Sent:** Monday, June 08, 2020 3:04 PM

**To:** Smith, Peterj <[Smith.Peterj@epa.gov](mailto:Smith.Peterj@epa.gov)>

**Cc:** Schroeder, Carolyn <[Schroeder.Carolyn@epa.gov](mailto:Schroeder.Carolyn@epa.gov)>; Hofmann, Angela <[Hofmann.Angela@epa.gov](mailto:Hofmann.Angela@epa.gov)>; Griffin, Stephanie <[griffin.stephanie@epa.gov](mailto:griffin.stephanie@epa.gov)>; Fitz, Nancy <[Fitz.Nancy@epa.gov](mailto:Fitz.Nancy@epa.gov)>; Lloyd, Matthew <[Lloyd.Matthew@epa.gov](mailto:Lloyd.Matthew@epa.gov)>

**Subject:** RE: NDAA PFAS guidance pesticide equities?

Thanks for sending this our way Peter. Nancy Fitz will take the lead reviewing this one for us. What's the latest she can send comments for you to consolidate?

Kaitlin

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**From:** Smith, Peterj <[Smith.Peterj@epa.gov](mailto:Smith.Peterj@epa.gov)>

**Sent:** Monday, June 8, 2020 10:15 AM

**To:** Picone, Kaitlin <[Picone.Kaitlin@epa.gov](mailto:Picone.Kaitlin@epa.gov)>

**Cc:** Schroeder, Carolyn <[Schroeder.Carolyn@epa.gov](mailto:Schroeder.Carolyn@epa.gov)>; Hofmann, Angela <[Hofmann.Angela@epa.gov](mailto:Hofmann.Angela@epa.gov)>; Griffin, Stephanie <[griffin.stephanie@epa.gov](mailto:griffin.stephanie@epa.gov)>

**Subject:** NDAA PFAS guidance pesticide equities?

**Importance:** High

Hi Kaitlin,

OLEM's PFAS destruction/disposal guidance, required under the NDAA with a statutory deadline, is chugging along and working towards a workgroup closure process in the very near future. As noted in the thread below, the guide makes a very brief reference to pesticide products that may contain PFAS as an additive, and so we think the guide merits some quick OPP review to ensure that program equities (e.g., container/containment regs) are not negatively impacted. If memory serves, CWPB has the container/containment program so maybe Carolyn's team can give the attached some quick attention and let us know if there are any comments/concerns?

Thank you!

Peter

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**From:** Griffin, Stephanie <[griffin.stephanie@epa.gov](mailto:griffin.stephanie@epa.gov)>  
**Sent:** Monday, June 08, 2020 9:58 AM  
**To:** Smith, Peterj <[Smith.Peterj@epa.gov](mailto:Smith.Peterj@epa.gov)>; Hofmann, Angela <[Hofmann.Angela@epa.gov](mailto:Hofmann.Angela@epa.gov)>  
**Subject:** RE: OCSPP ADP lead on the NDAA PFAS guidance workgroup

Thanks for taking a quick look. To my knowledge, this has not been shared with OPP. I'm not sure to whom in OPP this would be sent for verification.

Stephanie Griffin  
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**From:** Smith, Peterj <[Smith.Peterj@epa.gov](mailto:Smith.Peterj@epa.gov)>  
**Sent:** Monday, June 08, 2020 9:49 AM  
**To:** Griffin, Stephanie <[griffin.stephanie@epa.gov](mailto:griffin.stephanie@epa.gov)>; Hofmann, Angela <[Hofmann.Angela@epa.gov](mailto:Hofmann.Angela@epa.gov)>  
**Subject:** RE: OCSPP ADP lead on the NDAA PFAS guidance workgroup

Thank you, Stephanie! Has anyone in OPP seen this? I glanced through this very quickly, and see references to pesticidal uses (additive) and liquid residues from empty containers on p. 2-5. I'm pretty sure that OLEM has the spills and wastewater angles cover, but it might merit some quick verification with our OPP colleagues that the guidance doesn't create any conflict or open any new PFAS-related implementation questions relative the pesticide container/containment requirements at 40 CFR 165, especially with respect to management of rinsates from refillable containers. (E.g., would workers on an ag establishment know that a product contains any PFAS additives such that they would also need to be aware of this guidance?)

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**From:** Griffin, Stephanie <[griffin.stephanie@epa.gov](mailto:griffin.stephanie@epa.gov)>  
**Sent:** Friday, June 05, 2020 12:44 PM  
**To:** Hofmann, Angela <[Hofmann.Angela@epa.gov](mailto:Hofmann.Angela@epa.gov)>; Smith, Peterj <[Smith.Peterj@epa.gov](mailto:Smith.Peterj@epa.gov)>  
**Cc:** Reisman, Larry <[Reisman.Larry@epa.gov](mailto:Reisman.Larry@epa.gov)>; Turk, David <[Turk.David@epa.gov](mailto:Turk.David@epa.gov)>; Pachon, Carlos <[Pachon.Carlos@epa.gov](mailto:Pachon.Carlos@epa.gov)>  
**Subject:** FW: OCSPP ADP lead on the NDAA PFAS guidance workgroup

Hi Angela and Peter,

I wanted to forward a courtesy copy of the NDAA PFAS Destruction and Disposal interim guidance, should the OCSPP IO inquire. Due to the tight timeline, the workgroup is concurrently editing while navigating the ADP workflow – at this point, we're not making any more major changes, but there's copy editing/wordsmithing still happening.

For OCSPP's scope: TRI & CDR are mentioned briefly in Section 2's introduction and CDR again later in Section 2.a. I highlighted the paragraphs in the attached file.

Thanks,  
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**From:** Pachon, Carlos <[Pachon.Carlos@epa.gov](mailto:Pachon.Carlos@epa.gov)>  
**Sent:** Thursday, June 04, 2020 5:17 PM  
**To:** Griffin, Stephanie <[griffin.stephanie@epa.gov](mailto:griffin.stephanie@epa.gov)>; Ruedy, Daniel <[Ruedy.Daniel@epa.gov](mailto:Ruedy.Daniel@epa.gov)>  
**Cc:** Gilbert, Edward <[Gilbert.Edward@epa.gov](mailto:Gilbert.Edward@epa.gov)>; Hofmann, Angela <[Hofmann.Angela@epa.gov](mailto:Hofmann.Angela@epa.gov)>; Foster, Stiven

<[Foster.Stiven@epa.gov](mailto:Foster.Stiven@epa.gov)>; Smith, Peterj <[Smith.Peterj@epa.gov](mailto:Smith.Peterj@epa.gov)>

**Subject:** OCSPP ADP lead on the NDAA PFAS guidance workgroup

Hello Stephanie and Dan— I believe OCSPP has not identified a primary workgroup member for the NDAA PFAS DD Guidance. As you are the only OCSPP workgroup members, yet multiple programs in OCSPP may have an interest in it, you may need assistance in the review process. Please contact your Regulatory Steering Committee representative for guidance on identifying the primary workgroup member. I've been told your RSC POCs are Angela Hofmann and Peter J Smith (ccd).

Note the spirit of the current management review (June 3-10, see attachment) is to raise their awareness as to the goal and content of the guidance and seek their input (through DD and OD). We are not requesting a review and markup (though that is their decision). On the week of 6/17 the document should be ready for IO review. The OCSPP primary workgroup member will play a critical role here as well

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